

AMENDMENT UNDER 37 C.F.R. §1.111

In the claims:

1. (Amended) ~~The~~An opto electronic module of claim 20, wherein said first and second parts mate to form a housing for said module, comprising:
~~— electronic circuitry;~~
~~— an optical sub-assembly coupled to said electronic circuitry; and~~
~~— a housing enclosing said electronic circuitry and said optical sub-assembly, said housing comprising first and second mating parts, at least one of said first and second parts comprising a latch and the other of said first and second parts comprising a shoulder positioned to engage said latch when said first and second parts are mated to form said housing and hold said first and second parts together.~~
2. (Original) The opto electronic module of claim 1, wherein said latch and said shoulder can be disengaged from each other after said first and second parts of said housing are mated.
3. (Original) The opto electronic module of claim 1 wherein said latch comprises a resilient bar having first and second ends, said bar cantilevered from said one part of said housing at said first end and comprising a dog at said second end adapted to engage said shoulder on said other part of said housing.
4. (Original) The opto electronic module of claim 2 wherein said latch and said shoulder comprise a plurality of mating latches and shoulders, said mating latches and shoulders comprising a first subset for which said latch is on said first part and said mating shoulder is on said second part and a second subset for which said latch is on said second part and said mating shoulder is on said first part.

5. (Original) The opto electronic module of claim 2 wherein said latch is accessible from external of said module so that it can be biased out of engagement with said shoulder without damaging said module.

6. (Original) The opto electronic module of claim 3 wherein said housing comprises an outer surface and said second end of said latch is adjacent said outer surface of said housing when assembled and can be biased out of engagement with said mating shoulder manually.

7. (Original) The opto electronic module of claim 1 wherein said housing further comprises slots through which fluid may enter and exit said module.

8. (Original) The opto electronic module of claim 1 further comprising: electrical connectors protruding from said module for electrically coupling said electronic circuitry to external circuitry.

9. (Amended) The opto electronic module of claim 8 wherein said ~~electronic circuitry comprises a printed circuit board and~~ said electrical connectors comprise pins extending from said ~~printed~~ circuit board.

10. (Original) The opto electronic module of claim 8 further comprising a connector adapted to mate with an optical plug of an optical fiber.

11. (Original) The opto electronic module of claim 10 wherein said connector is integral with said housing.

12. (Canceled) The opto electronic module of claim 1 wherein said electronic circuitry comprises a printed circuit board and said optical sub-assembly is coupled to said printed circuit board by flex circuit.

13. (Canceled) The opto electronic module of claim 12 wherein said flex allows said optical subassembly to move relative to said printed circuit board.

14. (Amended) The opto electronic module of claim 108 further comprising: a conductive gasket circumscribing said connector.

15. (Original) The opto electronic module of claim 14 wherein said gasket comprises a shell circumscribing said connector and a plurality of fingers extending radially from said shell.

16. (Original) The opto electronic module of claim 15 wherein said fingers are adapted to contact a faceplate when said module is mounted in a chassis with said connector protruding through said faceplate for providing electromagnetic interference shielding.

17. (Amended) The opto electronic module of claim 1 ~~wherein said electronic circuitry comprises a printed circuit board, said module~~ further comprising:

a conductive shield sized, shaped, and positioned within said housing to cover ~~said~~ electronic circuitry on said ~~printed~~ circuit board.

18. (Original) The opto electronic module of claim 17 wherein said shield comprises two shields.

19. (Original) The opto electronic module of claim 8 further comprising mounting pins protruding from said housing for mounting said module to external circuitry.

20. (New) An opto electronic module having at least one optical axis and a front and rear, top and bottom orientation and comprising:

a first part defining at least one cavity for receiving an optical sub-assembly and a space a back portion to receive a circuit board;

at least one optical sub-assembly (OSA) disposed in said cavity along said optical axis;
a circuit board disposed in said space, said circuit board being substantially planar and parallel to said optical axis;
a flexible circuit connecting said OSA to said circuit board, said flexible circuit being electrically connected to said OSA and extending from said OSA orthogonally relative to said optical axis before bending backward to make an electrical connection with said circuit board on a planar surface of said circuit board such that said OSA is able to move relative to said circuit board; and
a second part to mate with said first part and secure said OSA between said first and second parts such that said OSA is positioned in said opto electric module to receive a connector.

21. (New) The optoelectronic module of claim 20, wherein said flexible circuit makes an electrical connection to said circuit board on a bottom planar surface of said circuit board.